

Special Issue

Signaling Molecules Involved in Gametes Development, Differentiation and Fertilization, 2nd Edition

Message from the Guest Editors

The production and differentiation of good-quality gametes, which are capable of fertilizing or being fertilized, are of primary importance. In contrast, there is a worrying decline in fertility worldwide, directly proportional to the increasing worsening of the quality of gametes. Thus, studies on the molecular mechanisms that regulate male and female gametogenesis are encouraged, not only to add new knowledge on the biological aspects but also to identify new potential markers of proper fertility and/or therapeutic targets to improve it.

This Special Issue aims to cover the physiological and pathological aspects of gamete production and differentiation at histological, cellular, and biomolecular levels. These include, but are not limited to, all aspects related to gamete function, including sperm and oocyte maturation, epididymal transit, fertilization, sperm motility, capacitation, and acrosome reaction. Papers focusing on the influence of environmental pollutants, as well as metabolic disorders on gametes are also welcome. Papers focusing on any vertebrate (including human) and non-vertebrate species will be accepted, as well as in vitro and ex vivo studies.

Guest Editors

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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